

ABSTRACT

A current limiter circuit for limiting current in an electrical circuit
5 element such as the magneto-resistive portion of a read head forming a portion of a hard disk drive and including: a first circuit connected to one end of the circuit element for applying a bias current of a desired value to the circuit element in response to the value of an input signal; a second circuit connected to the other end of the circuit element for setting the
10 amplitude of the voltage signal generated across the circuit element in response to the bias current; and a third electrical circuit connected to both the first and second circuits for limiting the value of bias current to a predetermined level for an abnormal event such as a current surge, a short circuit, or any other type of undesired current operating condition.